Sl.	Description	Unit	No.	Measurements			Quantity	PWD Rates	Amount
				Length	Width	Depth			
	Erection & Commissioning of work of pumpset including aligning and balancing with all necessary erection of materials and labour including supply and erection of two pair of supporting clamps, one borewell cap, cable clips and water tight gland cable protectors, bolts nuts valves and gauges etc, all job including fixing sluice valve, non return valve etc, and connecting delivery side of pumpset to rising main etc, complete.								
57	Power Capacitor: Supply and Delivery of brand new best make capacitor conforming to IS:2834 1986 with latest amendments with ISI mark of required capacity tested and approved by KPTCL anthorities and erection, electrification and commissioning of the same at the location of the respective pumpsets. Supply & Delivery of best indigenous brand new MCB (Miniature Circutit Breaker) of required capacity as per IS:8828-1978 and its latest amendment with ISI mark 6/10/20/25/40 amps with sealble box with MCB 3 KVAR	1				1.00	Nos	850.00	850.00
		1				1.00	Mtr	460.00	460.00
58	Supplyin mmdia 2mm 2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive pase etc., and running before cocreting the slab. The conduit should be tiled to the reinforcement rods by using binding wires and unused ways of junction boxes and plpe ends should be covered using PVC end enclosuers. Run with 18SWGGI fish wire wherever necessary (P-2,1-1)								
	b)25mm dia 2mm thick	1	10.00			10.00	Nos	44.28	442.80
59	Supplying of TPST with rewirable porcelain channels in SM enclosure. (P-30. 1-1)								
	b)32amps	1				1.00	Nos	1468.80	1468.80
60	Supplying and fixing polished wood board made of not less than 15 mm thick plan on both sides with planks made out of more than two pieces and fixing the same to the wall using wooden plugs, screws etc.,(p-30 1-2)								
	20X20X2.5	2				2.00	Nos	307.80	615.60
61	Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multistrand 2x1.5 Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box. The other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet (P-3. 1-8)								
	(a) Short Point upto 3Mtr form tapping point to outet via switch	1	1.00			1.00	Rmtr	189.00	189.00
	© Long Point above 6 Mtr. Upto 10 Mtr. From tapping point to out let via switch	1	1.00			1.00	Rmtr	397.44	397.44
62	Supplying 6 A flush/projected type socket and a 6Amps flush/projected type SP switch either surface/flush mounting in a existing gang box or a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required (P-6., 1-12)								
	(b)6Amps3/5 Way	1				1.00	Nos	114.48	114.48
63	Wiring for lighting /power circuit using one of PVC insulated 1100V grade multis and Copper conductor single core cable in open or consealed system of wiring (P-9, 1-20)								

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Sl.	Description	Unit	No.	Measurements			Quantity	PWD Rates	Amount
				Length	Width	Depth			
	Group "B"© 2.5Sq.mm	1	25.00			25.00	Rmtr	22.65	566.25
64	Supplying and fixing PBBC backelite straight or slant batten holder &wiring 60w/230 Volts lamps (P-13, 1-2)								
	Group B	1	3.00			3.00	Rmtr	60.48	181.44
65	Supplying and fixing of LED type panel borad indicating lamp with required colour suitable for 220 v A.C. 50 Hz 12/24v D.C (P-38, 1-35)								
		3				3.00	Nos	464.40	1,393.20
66	Supplying of LT UG cable having aluminium conductor PVC insulated. Sheathed. Galvanished. Steel wire/steel tape armoured cable with PVC outer sheathing 1.1KV class (conforming to IS 1554) Class-A (P-67, 1-10)								
	e)4.0 core 16Sqmm	1	12.00			12.00	Rmtr	162.00	1,944.00
67	Lobour charges for laying of 1.1KV class UG cable when supplied departmentally/ agency in existing trench GI pipe/stoneware pipe/on wall/on pole as required (P-68, 1-11)								
	a)10Sqmm to 16Sqmm	1	12.00			12.00	Rmtr	8.64	103.68
68	Digging of trench of 0.6mtrs deepx0.5 mtrs wide refilling the required gorund level and consolidating etc., complete (P-68, 1-12)								
	a)in soil(ordinary)	1	8.00			8.00	Rmtr	43.20	345.60
69	Supplying and fixing of class 'A' GI pipe on pole /wall/drain crossing with necessary clamping arrangement for UG cable of 1.1KV class(P-69, 1-15)								
	a)65mm(upto 150Sqmm)	1	6.00			6.00	Rmtr	259.20	1,555.20
70	Supplying and fixing of heay duty cable glands suitable for UG cable of 1.1KV class metal only (P-69, 1-17)								
	a)25mm dia	1				1.00	Nos	71.28	71.28
71	Supplying and fixing miniature circuit breakers on existing MCB disitribution boards using necessary fixing materials and wiring complete as required (P-34, 1-13)								
	5-32 amps TPN	1				1.00	Nos	1085.40	1085.40
72	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete (P-30, 1-3) a) 32Amps								
		1				5.00	Nos	108.00	540.00
73	Supplying and fixing L.T. cast lorn pot heads suitable for 1.1. KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.,(P-69, 1-16) a) 16Sqmm								
		1				1.00	Nos	280.60	280.60
74	Supplying, fixing, wiring, earth electrode for gounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checkunts etc., the pipe shall have 16 through holes of 122mm dia (P-66, 1-7)								
		1				1.00	Nos	2106.6	2,106.00

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Sl. No.	Description	Unit	No.	Measurements Length	Width	Depth	Quantity	PWD Rates	Amount
75	Supplying decorative horizontal type street light fluorescent fitting weather and water proof complete with low loss open construction copper wound ferromagnetic ballast,starter,locking type brass contact holders with 1 No. of 4 feet 40 watts fluorescent tube completely wired for use on 230/250 volts 50cycles AC supply with opal reeded Perspex cover at bottom complete fitting (P-17, 1-6)								
		1				1.00	Nos	1544.4	1,544.40
76	Supplying & fixing mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluroscent tube street light fitting of all capacities of GI or CI or rail or RCC pole/ wall using suitable clamps. bolts. and nuts and wiring using suitable capacity wires complete(P-26, 1-1)								
		1				1.00	Nos	658.80	658.80
	Borewell total								
	Electrical Works								
	Open Conduit System								
77	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. **(ELE SR 2010-11 Page-2, Item-21)**								
	b) 25mm dia 2mm thick					25.00	Mtr	45.00	1125.00
	Concealed Conduit System								
78	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. **(ELE SR 2010-11 Page-2, Item-2)**								
	b) 25mm dia 2mm thick					25.00	Mtr	41.00	1025.00
79	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. **(ELE SR 2010-11 Page-2, Item-3)**								
	b) 25mm dia 2mm thick					20.00	Mtr	53.00	1060.00
80	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.**(ELE SR 2010-11 Page-2, Item-4)**								
	c) 135x75x65mm					1.00	Each	86.00	86.00
	d)180x90x65mm					1.00	Each	118.00	118.00
	e)200x90x65mm					1.00	Each	128.00	128.00
81	Supplying and fixing PVC/metal conduit accessories.(3/5) **(ELE SR 2010-11 Page-3, Item-5)**								
	1. Special type junction box								
	d)40mm junction box					1.00	Each	40.00	40.00
	2. Deep junction box								

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Sl. No	Description	Unit	No.	Measurements			Quantity	PWD Rates	Amount
				Length	Width	Depth			
	c) 32mm deep junction box					1.00	Each	33.00	33.00
82	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.**(ELE SR 2010-11 Page-3, Item-6)**								
	a)12xx"12"x3" (330x300x76mm					5.00	Mtr	98.00	490.00
	b)12"x9"x3" (300x228x76)					5.00	Mtr	80.00	400.00
83	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using **copper** PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. **(ELE SR 2010-11 Page-3, Item-8)**								
	a) Short point up to 3Mtr from tapping point to out let via switch					2.00	Each point	175.00	350.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch					2.00	Each point	260.00	520.00
84	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using **copper** PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. **(ELE SR 2010-11 Page-4, Item-9)**								
	a) Short point up to 3Mtr from tapping point to out let via switch box					2.00	Each point	135.00	270.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box					2.00	Each point	225.00	450.00
85	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. **(ELE SR 2010-11 Page-7, Item-17)**								
	I.Group-A								
	e) 6Moudule					5.00	Each	125.00	625.00
86	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..**(ELE SR 2010-11 Page-8, Item-18)**								
	I.Using Group "A" materials								
	a) 6Amps one way.					2.00	Each	96.00	192.00
	i) 32Amps DP switch					2.00	Each	365.00	730.00
	j) 6/16Amps universal socket					2.00	Each	205.00	410.00
87	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box. **(ELE SR 2010-11 Page-9, Item_19)**								
	Group 'A'					2.00	Each	630.00	1,260.00
88	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring. **(ELE SR 2010-11 Page-9, Item-20)**								
	I. Group A.								
	a. 1 sqmm.					60.00	mtr	11.00	660.00
	b. 1.5 sqmm					60.00	mtr	15.00	900.00
	C.6 sqmm					53.00	mtr	52.00	2,756.00
89	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. **(ELE SR 2010-11 Page-10, Item-24)**								

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Sl. No.	Description	Unit	No.	Measurements Length	Width	Depth	Quantity	PWD Rates	Amount
	a) 20mm					10.00	mtr	36.00	360.00
90	Supplying PVC/GI flexible conduit pipe.....mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. (ELE SR 2010-11 Page-10, Item-25)								
	a) 20mm					12.00	No	45.00	540.00
91	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2010-11 Page-11, Item:25)								
	b) 110mm					12.00	No	8.75	105.00
92	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2010-11 Page-11, Item:27)					20.00	No	4.00	80.00
93	Providing and fixing Chonnated Poly Vanyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement &the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) 20mm nominal OD pipes (PWD SR 2013-14 Page:105 Item:13.86.2)					26.00	mtr	212.00	5,512.00
94	For BESCOM Deposite Charges(As per Actuals)/For Meter Etc... (Should not include in Sh B)								
	For Bore Well		1			1.00	LS	25000.00	25,000.00
	Sub Total								480.92
92	Miscellaneous								5000000.00
				GRAND TOTAL					

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer,
BBMP Bangalore

ನಂ.: 123 ದಿನಾಂಕ: 29/10/15

ರೂ. 50,00,000-00 Rupees
Fifty Lakhs only

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-72

TECHNICAL SANCTION

Rs: Fifty Lakhs only is accorded

under the head: P-3089

By CE(R.R.N.): 187

Registered as CE (R.R.N) No: 50-51 subject to conditions contained in enclosed memo No: 187/15-16 Date: 29/10/15

TA/ಸಿಇ

CE (R.R.N.)

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